



## Connecting Europe Facility CEF funding instrument

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## Trans-European Transport Network TEN-T

- Trans-European Transport Network, TEN-T, is a network which comprises roads, railway lines, inland waterways, inland and maritime ports, airports and rail-road terminals throughout MSs
- TEN-T policy aims to close the gaps between Member States' transport networks and remove bottlenecks
- It promotes and strengthens seamless transport chains for passenger and freight, while keeping up with future technological trends.
- This policy is vital for Europe to re-boost its economy and to generate new jobs
- The TEN-T consists of two planning layers: comprehensive network to be ready in 2050 and core network to be ready in 2030

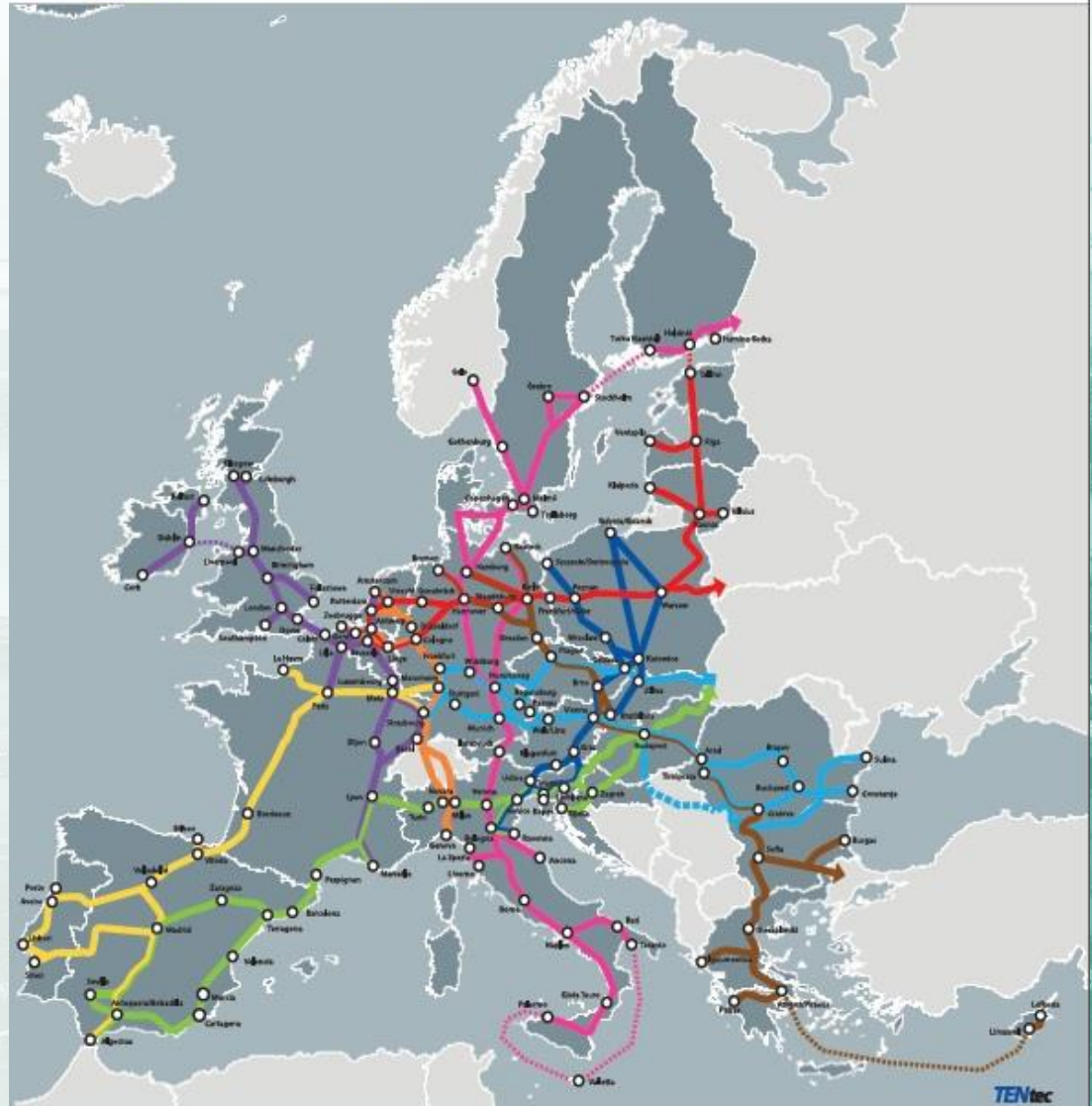
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## TEN-T core network corridors



European  
Commission

TRANS-EUROPEAN TRANSPORT NETWORK  
TEN-T CORE NETWORK CORRIDORS



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## Core and comprehensive ports in Finland





## Connecting Europe Facility CEF

- EU financing framework for the years 2014 – 2020
- Finances projects which fill the missing links in Europe's energy, transport and digital sectors
- Promotes cleaner transport modes, high speed broadband connections and facilitating the use of renewable energy in line with the Europe 2020 Strategy
- Helps to complete the European single market
- The CEF is divided into three sectors: CEF Energy, CEF Transport and CEF Telecom
- Budget of 33.2 billion € (with 26.2 billion for transport)

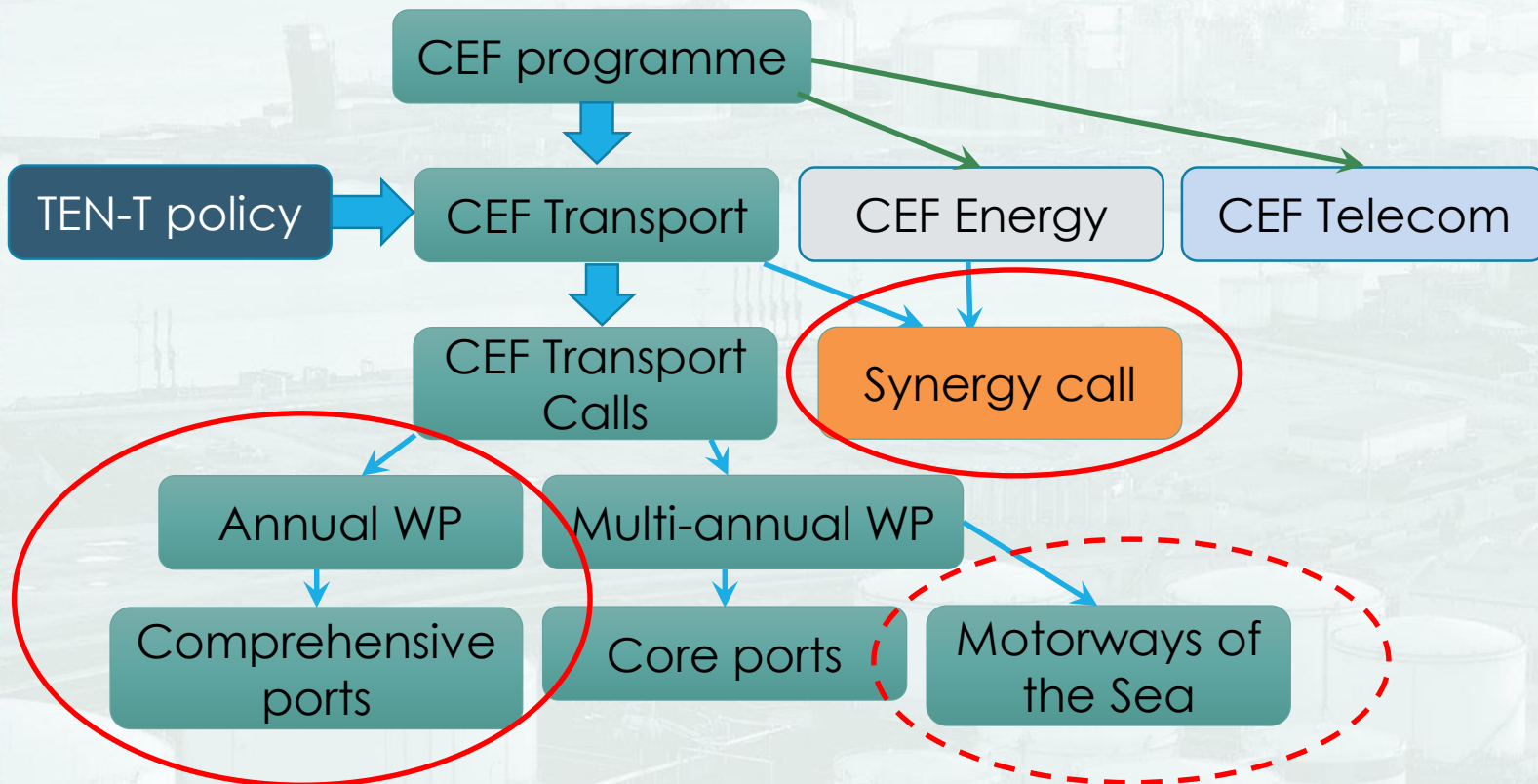


## CEF possibilities for a maritime sector

- Port investments 20-30 %
- Vessel related investments 30 %
- Alternative fuels infrastructure 20-30 %
- New technologies (pilot) 50 %
- Studies 50 % (-60 %)
  
- Annual and multiannual work programmes, different priorities and calls
  - Multi-annual: Motorways of the Sea
  - Multi-annual: Innovation and new technologies
  - Multi-annual: Core Ports
  - Annual: Comprehensive ports and innovations
  - Synergy calls

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## CEF Transport calls 2016-2017





## CEF Transport calls 2016-2017 (indicative)

- Synergy call 2016, energy and transport, Sept 2016
  - 40 M€
  - First time
  - Studies, pilot actions
- Annual call 2016, Oct/Nov 2016
  - Budget 90 M€
  - Freight Transport Services (20 M€)
- Motorways of the Sea, early 2017?
  - Previous budgets between 130-250 M€





## Synergy call 2016

- Support the deployment of sustainable and efficient transport and energy infrastructure through the creation of synergies
- Specific objectives:
  - Ensuring sustainable and efficient transport systems in the long run, with a view to preparing for expected future transport flows, as well as enabling all modes of transport to be decarbonised through transition to innovative low-carbon and energy-efficient transport technologies, while optimising safety.
  - Increasing competitiveness by promoting the further integration of the internal energy market and the interoperability of electricity and gas networks across borders in particular by increasing the number of projects effectively interconnecting Member States' networks and removing internal constraints, reducing or eliminating Member States' energy isolation, increasing the percentage of interconnectivity in electricity between Member States and achieving price convergence between the energy markets of the Member States concerned.
- Priority is given to studies with pilot deployment (real-life trials)
- An action submitted by an applicant from a single EU Member State is eligible

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- indicative maximum eligible costs per project at (a) up to EUR 2 million for studies without deployment (type A) and up to EUR 10 million for studies with pilot deployment (type B)
- Total action sizes should be at least EUR 1 million of eligible costs to achieve an adequate European dimension.
- the joint use of facilities for liquefied natural gas (LNG), electricity and gas storage facilities, mobility using alternative fuels (e.g. natural gas, batteries and hydrogen fuel cells), intelligent transport systems
- Maximum co-funding rate 60 %

Activity	Calls (indicative date of publication)	Indicative amount
Multi-sectoral call for proposals under the Connecting Europe Facility	September 2016	€40 million
<b>TOTAL</b>		<b>€40 million</b>



## CEF Transport Annual Calls 2016 (indicative)

### 5. TIMETABLE FOR THE ANNUAL CALLS FOR PROPOSALS 2016 AND INDICATIVE AMOUNTS AVAILABLE

Objective	Priority	Calls (indicative date of publication)	Indicative amounts under General envelope	Indicative amounts under Cohesion envelope
Removing bottlenecks, enhancing rail interoperability, bridging missing links and, in particular, improving cross-border sections	Railways, inland waterways and roads projects on the Core Network including connections to inland and maritime ports and airports, as well as development of ports	October / November 2016	0	€50 million
<b>Sub-total</b>			<b>0</b>	<b>€50 million</b>
Ensuring sustainable and efficient transport systems in the long run, as well as enabling all modes of transport to be decarbonised through transition to innovative low-carbon and energy-efficient transport technologies, while optimising safety	Freight Transport Services	October / November 2016	€20 million	0
	Actions to reduce rail freight noise, including by retrofitting of existing rolling stock	October / November 2016	€20 million	0
<b>Sub-total</b>			<b>€40 million</b>	<b>0</b>
<b>TOTAL</b>			<b>€40 million</b>	<b>€50 million</b>



## Freight Transport Services -objectives

- Shifting cargo to more sustainable, energy-efficient modes to improve the environmental performance of the transport system and to reduce external costs of transport,
- Improving the integration between the transport modes to increase reliability and efficiency of existing multimodal services in terms of time, quality and costs.
- Improving the efficiency of supply chains to reduce empty runs, increase load factors and limit transport time through better management, organisation and integration of logistic activities. This may be achieved for instance, by the automation and optimisation of processes, systems and tools, and the development of know-how. Priority will be given to the following actions:
  - collaborative approaches to logistics, aimed at cargo bundling, creating synergies and clustering of the services including the use of independent (neutral) trustees and intelligent management/organisational solutions.
  - interoperable ICT systems,
  - innovative solutions for last mile operations and customised logistics services,
  - innovative approaches for loading and transporting goods, and optimizing product/package volumes.



## Freight Transport Services

- Something for ports to consider ?
- Telematic application systems and services
- Co-funding rate 20 % for works and 50 % for studies
- one or more Member States, and / or with the agreement of the Member States concerned, by international organisations, joint undertakings, or public or private undertakings or bodies or entities established in Member States.
- Certain eligible criteria

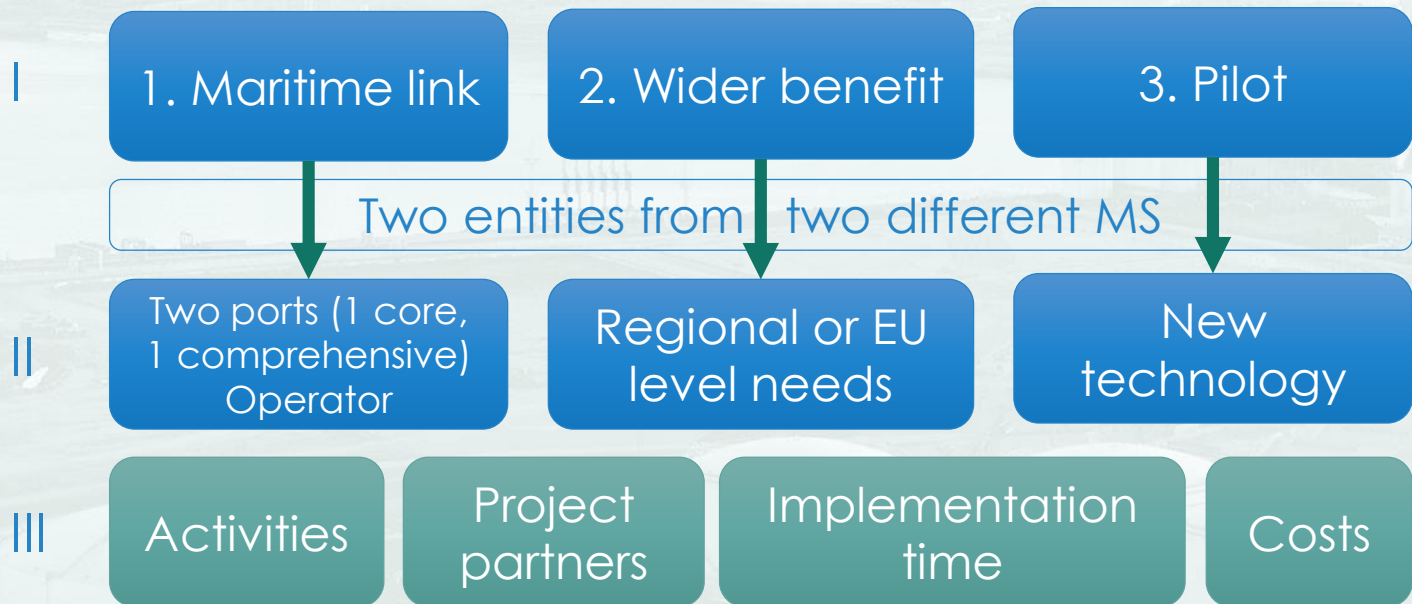


## Motorways of the Sea call in 2017 (?)

- CEF funding supports the following MoS-related actions focusing either on establishing maritime-based MoS links or elaborating wider benefit actions:
  - Implementation projects (work projects), 30 %
  - Pilot actions, 50 %
  - Studies, 50 %
- No funding for fleets of vessels, only dedicated lines
- Upgrades on vessels are limited to the additional efforts for environmental purposes
- Ships have to remain in EU for 5 years after end of project
- Alternative fuels, CO<sub>2</sub> reduction, on shore power supply, energy efficiency, winter navigation etc...
- Port infrastructure development
- Wider benefit actions addressing regional needs (e.g. a group of ports for LNG filling stations)
- At least two member states

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## Motorways of the Sea project





## Eligible port infrastructure or facilities

- high water protection devices (e.g. dikes, breakwaters, locks)
- lights, buoys, beacons; ramps, jetties, signposting
- infrastructure and facilities up to the terminal site (e.g. for temporary storage of loading units, facilities for drivers, facilities for shore side electricity, waste treatment facilities, terminal handling equipment)
- intermodal terminals in ports and hinterland
- land and sea access to port, including dredging for the purpose of MoS, rail, inland navigation and road connecting links to the TEN-T or national land transport networks, connections to intermodal centres
- electronic logistics management systems
- administration and customs facilities (e.g. VTMS, reporting and information exchange systems, administrative simplification)
- safety and security measures
- waterways and canals to shorten sea routes
- ways of ensuring year-round navigability, such as facilities for dredging or icebreaking





## Particular requirements for pilot actions

- Testing or deploying new technological solutions in real operational conditions
- Solutions not sufficiently present in today's market and therefore experience needed for future large scale implementation
- EU added value
- At limited scale and at a reasonable price
- Dissemination of results needed
- No R&D
- No deployment of commercial network
- Limited number of pilot actions to be financed per sector (critical mass principle)
- A detailed analysis of the data and lessons learned in terms of long term feasibility, including the feasibility of wider deployment of innovative activities
- Key performance indicators, to be defined in advance to allow estimating positive impact



## TEN-T / CEF T project examples

- TEN-T MoS
  - Make a Difference (Viking Line LNG study)
  - Midway Alignment (Kvarken link)
  - Baltic So2lution (Wärtsilä 2-stroke DF)
  - Pilot methanol (Wärtsilä)
  - TWIN PORT (Port of Helsinki)
  - WINMOS (ice breaking)
- Other governmental projects (road, rail, sea)

## Liikenneviraston ja muiden suomalaisten toimijoiden hakemukset vuoden 2014 CEF-liikennehaussa

### Liikenneviraston tukihankkeet

Hanke	Tukikelpoiset kokonais-kustannukset (M€)	Tukiosuus (M€)	Tuki-prosentti
Pisara rakentamissuunnitelma (rakslu)			
Helsingin ratapihan parantaminen (rakslu)	32,61	16,31	50 %
Keski-Pasilan läntinen lisäraide (rakslu)			
<b>Yhteensä</b>	<b>32,61</b>	<b>16,31</b>	

### Liikennevirasto mukana osana kansainvälistä konsortiota

Hanke	Tukikelpoiset kokonais-kustannukset (M€)	Tukiosuus (M€)	Tuki-prosentti
FAMOS Freja: Finalising Surveys for the Baltic Motorways of the Sea	33,93	11,92	35,15 %
STM Validation Project (STM-konseption testaus ja kehitys)	42,98	21,49	50 %
NordicWay (suunnittelu ja pilotointi)	5,20	2,60	50 %
EU ITS Platform (ITS-direktiivin ensisijaisten palveluiden toteutus)*	14,79	7,40	50 %
NEXT-ITS 2 - North European Cross-border ITS phase 2	35,90	7,18	20 %
I_HeERO (Hätäkeskusjärjestelmien yhteensovitus e-Call:n kanssa)	30,99	15,49	50 %
<b>Yhteensä</b>	<b>163,78</b>	<b>66,08</b>	

### Muiden suomalaisten toimijoiden hankkeet

Hanke	Tukikelpoiset kokonais-kustannukset (M€)	Tukiosuus (M€)	Tuki-prosentti
TWIN-PORT 2	97,60	29,30	30,02 %
The Northern ScanMed Ports - Sustainable Maritime Links	21,10	6,55	31,04 %
Back from Black -Study and deployment of the affordable scrubber retro fitting technology for SME shipowners	20,25	7,20	35,56 %
Development of LNG/L-CNG distribution network in Finland	5,30	2,65	50 %
Upgrading and sustaining the competitive core Baltic MoS link Helsinki-Lubeck	25,94	7,78	30 %
Biscay Line - Multiple port Finland-Estonia-Belgium-Spain long distance MoS, relevant to many core network corridors	15,77	4,73	30 %
Upgrading and sustaining the competitive Baltic MoS link Germany-Finland (RoRo multiple ports loop)	18,04	5,41	30 %
Compliance monitoring pilot for Marpol Annex VI (CompMon)	4,88	2,44	50 %
Joint Application for PDP Implementation - Cluster 3	281,56	140,78	50 %
Support to the implementation of ERTMS	12,18	6,09	50 %
<b>Yhteensä</b>	<b>502,63</b>	<b>212,94</b>	

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- <http://www.liikennevirasto.fi/liikennejarjestelma/ten-t>
- <https://ec.europa.eu/inea/en/connecting-europe-facility>

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